

Title (en)
CD47 BLOCKADE WITH RADIATION THERAPY

Title (de)
CD47-BLOCKADE MIT STRAHLENTHERAPIE

Title (fr)
BLOCAGE DU CD47 ASSOCIÉ À UNE RADIOTHÉRAPIE

Publication
EP 3706775 A4 20210901 (EN)

Application
EP 18874304 A 20181105

Priority
• US 201762582008 P 20171106
• CA 2018051392 W 20181105

Abstract (en)
[origin: WO2019084692A1] This patent application relates to the treatment of cancer and other diseases that have a CD47+ phenotype. Treatment involves the use of radiation and a CD47 -binding agent, preferably a CD47-binding form of human signal regulatory protein alpha (SIRPa) that inhibits activation of the CD47/ SIRPa axis and mediates phagocytosis of CD47+ disease cells. An anti-cancer effect of a CD47 blocking agent is enhanced when combined with radiation therapy. The anti-cancer effect of a CD47 blocking agent such as SIRPaFc is enhanced when combined with radiation therapy.

IPC 8 full level
A61K 38/17 (2006.01); **A61K 41/00** (2020.01); **A61K 47/68** (2017.01); **A61N 5/10** (2006.01); **A61P 35/00** (2006.01); **A61P 35/02** (2006.01)

CPC (source: EP US)
A61K 38/1709 (2013.01 - EP); **A61K 38/1774** (2013.01 - US); **A61K 41/0038** (2013.01 - EP US); **A61K 47/68** (2017.08 - EP US); **A61N 5/1077** (2013.01 - US); **A61P 35/00** (2018.01 - EP US); **A61P 35/02** (2018.01 - EP); **C07K 14/70503** (2013.01 - US); **A61N 5/10** (2013.01 - EP); **A61N 2005/1098** (2013.01 - US); **C07K 2319/30** (2013.01 - US)

C-Set (source: EP)
A61K 38/1709 + A61K 2300/00

Citation (search report)
• [X] WO 2017180519 A1 20171019 - GEORGE STATE UNIV RES FOUND INC [US]
• [X] WO 2012170250 A1 20121213 - RADIATION CONTROL TECHNOLOGIES INC [US], et al
• [X] WO 2010017332 A2 20100211 - US GOV HEALTH & HUMAN SERV [US], et al
• [X] WO 2017177333 A1 20171019 - TRILLIUM THERAPEUTICS INC [CA]
• [A] ISENBERG JEFF S ET AL: "Thrombospondin-1 and CD47 limit cell and tissue survival of radiation injury", AMERICAN JOURNAL OF PATHOLOGY; [10640], ELSEVIER INC, US, vol. 173, no. 4, 1 October 2008 (2008-10-01), pages 1100 - 1112, XP002567138, ISSN: 0002-9440, [retrieved on 20080911], DOI: 10.2353/AJPATH.2008.080237
• See also references of WO 2019084692A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019084692 A1 20190509; CA 3080640 A1 20190509; CA 3080640 C 20240409; EP 3706775 A1 20200916; EP 3706775 A4 20210901; US 11771764 B2 20231003; US 2021244816 A1 20210812

DOCDB simple family (application)
CA 2018051392 W 20181105; CA 3080640 A 20181105; EP 18874304 A 20181105; US 201816759981 A 20181105